

NWSChat

Enhanced Communications for Increased Decision Support

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What is NWSChat?



- NWSChat is an instant messaging (IM) system owned /operated by the NWS
 - Identical features to IEM Chat (even some improvements)
- IM is utilized by NWS operational personnel to share critical warning decision expertise and other types of significant weather information essential to the NWS's mission of saving lives and property
- This <u>information is exchanged in real-time</u> with the media and emergency response community, who in turn play a key role in communicating the NWS' hazardous weather messages to the public
- IM provides media and emergency response partners with the ability to communicate significant event reports <u>back</u> to NWS operational personnel, who in turn utilize the information to make effective warning decisions
- NWS partners can also use IM as an efficient means of seeking clarifications and enhancements to the communication stream originating from the NWS during a fast-paced significant weather or hydrologic event



NWSChat - The In's & Out's



Jabber or XMPP

Communication protocol NWSChat uses. It is what Google Talk uses. NWSChat and Google Talk are implementations of XMPP. Standards-based open source server and client

Jabber ID

Unique identifier of your account, much like an email address. Jabber IDs always include the server name, just like emails.

Chat Group / Shared Roster

A collection of users that can see each other as "buddies". This just means you can tell when they are online and get more information about them. This is configured on the server side, so there is no need to "add buddies" when partners sign up.

Chat Room

A virtual meeting place where multiple users can exchange information simultaneously. You speak, everyone else in the room can read it. "nwsbot" lives in this room as well.

- Logically named chat rooms with the ability for users to simultaneously participate in any number of chat rooms
- Ability to control who has chatroom access

Users can select the client software that meets their security or platform requirements

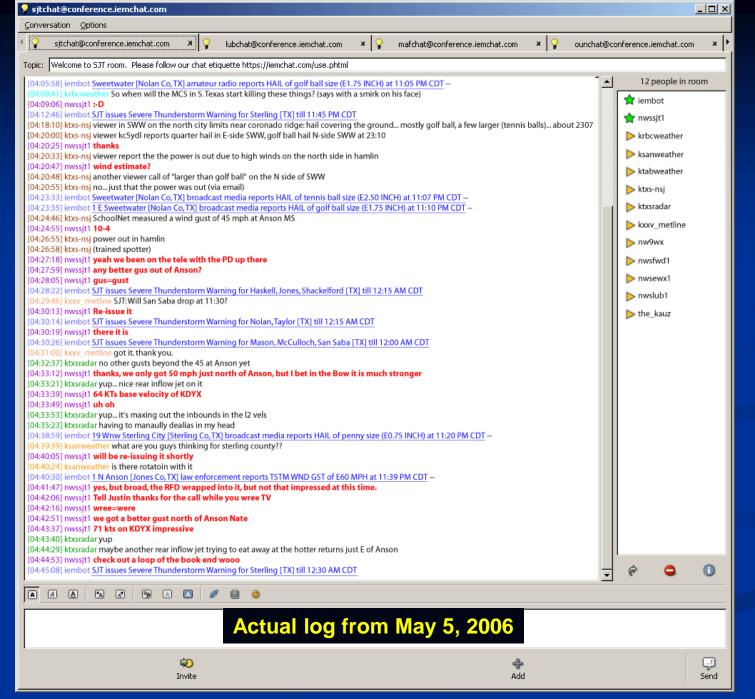
- PC chat clients
- Web client
- Mobile chat clients





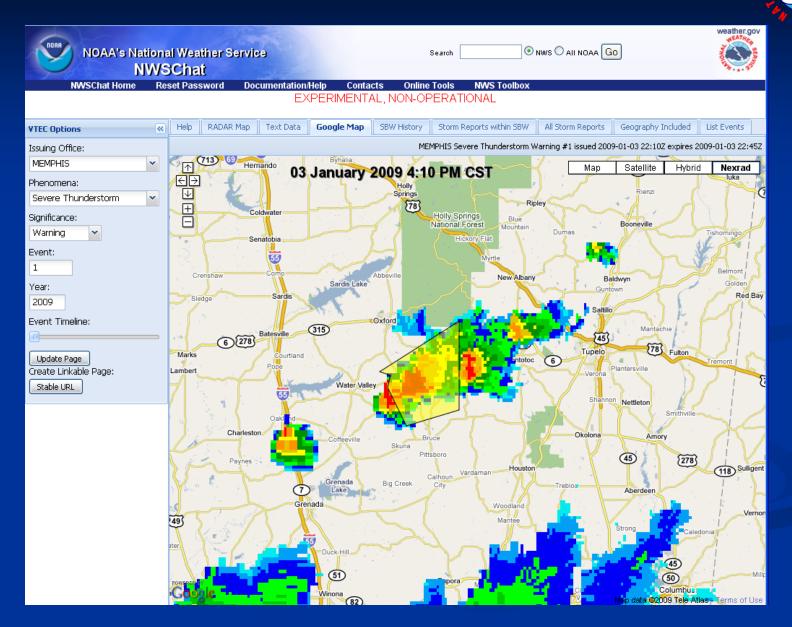
Time for a tour





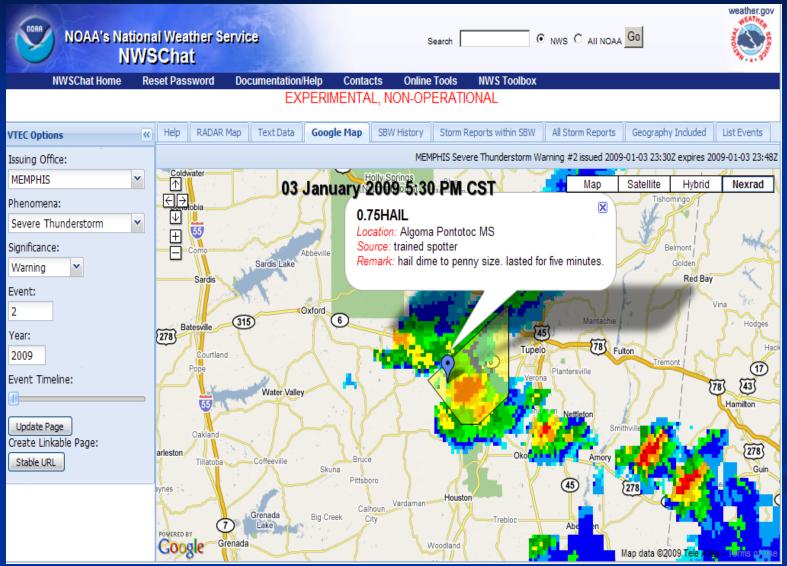


NWSChat



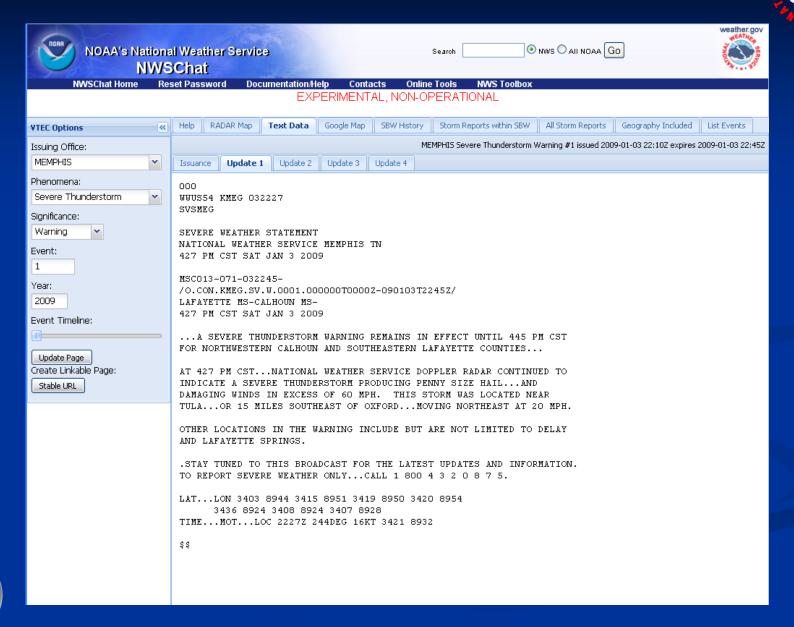








NWSChat





NWS Bot Examples



BMX issues Severe Thunderstorm Warning for Montgomery [AL] till 6:30 PM CDT

Followup statements (SVS)

BMX cancels Severe Thunderstorm Warning for Elmore [AL]

Special Marine Warnings

MFL issues Marine Warning for Biscayne Bay, Coastal waters from Deerfield Beach to Ocean Reef FL out 20 nm [AM] till 8:45 AM EDT

Non-precipitating warnings (requires VTEC)

OUN issues Fire Weather Warning valid at Aug 18, 12:00 PM CDT for Comanche, Stephens, Garvin, Murray, Pontotoc, Coal, Cotton, Jefferson, Carter, Johnston, Atoka, Love, Marshall, Bryan [OK] and Archer, Clay, Wichita [TX] till Aug 18, 8:00 PM CDT

SPC Mesoscale Convective Discussions (MCD)

Storm Prediction Center issues Mesoscale Discussion #1836

SPC Tornado and Severe Thunderstorm watches

Storm Prediction Center issues SEVERE TSTM watch till 17:00 UTC

National Hurricane Center products

National Hurricane Center issues ADVISORY #32 for HURRICANE GORDON

ASOS extreme wind gusts

WINNER,SD (KSFD) ASOS reports gust of 55 knots from SSE @ 0344Z

KSFD 150353Z AUTO 16035G55KT 7SM FEW110 28/12 A2957 RMK AO2 PK WND 15055/0344 SLP991 T02780122 TSNO \$

Local Storm Reports (LSR)

Monroe [Turner Co, SD] emergency mngr reports TSTM WND DMG at 12:18 PM CDT -- 4 to 8 inch diameter tree limbs knocked down

WFO optional links to NOW casts, RER statements, Flood warnings/statements, Hurricane Statements, others can be added. SJU issues Flood Advisory (FLS)

NESDIS Satellite Precipitation Estimates (SPE)

NESDIS issues Satellite Precipitation Estimates

West Texas Mesonet wind gust alerts

GRAHAM,TX (XGHS) ASOS reports gust of 52 knots from SSE @ 2110Z

XGHS 162110Z 15033G52KT -RA 23/19 A3006 RMK AO1 T02280187 P0001 RH 080%

Special Weather Statements (SPS)

EPZ ISSUES THIS IS A REISSUE OF THE RIVER FLOOD WARNING FOR THE RIO GRANDE IN EL PASO for El Paso [TX] till 7:00 AM MDT



Application and Impacts



IM consistently listed as a **Best Practice** in Service Assessments:

Veterans Day Weekend Tornado Outbreak of November 9-11, 2002

Record Tornado Outbreaks of May 4-10, 2003

Hurricane Katrina, August 23-31, 2005

Tornadoes in Southern Alabama and Georgia on March 1, 2007

From the Veterans Day 2002 Assessment: Birmingham's ABC 33/40 chief meteorologist James Spann commented,

"This is the greatest thing that ever happened between the private sector and the National Weather Service. The greatest ever."



Carbon Hill Elementary School



Application and Impacts



From the May 2003 Assessment:

"Chat is by far the most valuable tool we have here. Even before warnings came out we knew they would. That was huge. Every office needs to use it. It's the best thing that ever happened as far as being able to pull everything in one place."

- Greg Dee, Chief Meteorologist, WDHN-TV, Dothan, Alabama 15



EF4 tornado near Enterprise, Alabama, March 1, 2007 (photo courtesy of J. Barry Mott)

From the March 2007 Assessment:

"A very successful means of communication initiated by WFO Memphis was an instant messaging system."

"The media uses the system to relay damage reports to the WFO and ask questions of the forecasters."

"All of the area 26 television stations that were interviewed, mentioned the usefulness of the instant messaging system and would like to see its use greatly expanded."



Questions?

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Or chat with us online...we're in your Buddy List

